

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	((base adj2 station) or BS or BTS) with ((adaptive-array adj antenna) or (smart or intelligent adj antenna)) with (isolat\$3 or separat\$3) near4 signal	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/09 16:22
L2	46	(smart adj antenna or adaptive adj array adj antena) with ((select\$3 or chos\$3) near2 (element or beam))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/09 16:19
L3	14	((base adj station) or BS or BTS) and ((array adj antenna) or (smart adj antenna)) near2 (repeaters)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/09 16:36
L6	0	((mobile or terminal or (mobile phone)) same (repeaters) same ((base adj station) with (smart adj antena)) with (isolat\$3) with (select\$3)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/03/09 16:31
L7	0	((mobile or terminal or (mobile phone)) same (repeaters) same ((base adj station) with (smart adj antena)) with (isolat\$3) with (select\$3)).clm.	US-PGPUB	OR	ON	2006/03/09 16:31
L8	0	((array adj antenna) or (smart adj antenna)) with (isolat\$ or spacial\$3) near2 (repeaters)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/09 16:36
S1	468	455/446.ccls.	US-PGPUB; USPAT; EPO	OR	OFF	2005/04/30 08:06
S2	7813	(repeater with smart antenna) same isolat\$3	US-PGPUB; USPAT; EPO	OR	OFF	2005/04/28 09:04
S3	15	455/446.ccls. and ((repeater with smart antenna) same isolat\$3)	US-PGPUB; USPAT; EPO	OR	OFF	2005/04/28 09:05
S4	7926	repeater same smart antenna same isolat\$3	US-PGPUB; USPAT; EPO	OR	OFF	2004/07/30 18:55
S5	197	455/15.ccls.	US-PGPUB; USPAT; EPO	OR	OFF	2004/07/30 18:47



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S6	3	455/446.ccls. and 455/15.ccls.	US-PGPUB; USPAT; EPO	OR	OFF	2004/07/30 18:47
S7	1255	455/562	US-PGPUB; USPAT; EPO	OR	OFF	2004/07/30 18:48
S8	2	(455/446.ccls. and 455/15.ccls.) and 455/562	US-PGPUB; USPAT; EPO	OR	OFF	2004/07/30 18:48
S9	1	(repeater same smart antenna same isolat\$3) and ((455/446.ccls. and 455/15.ccls.) and 455/562)	US-PGPUB; USPAT; EPO	OR	OFF	2004/07/30 18:48
S10	23	(repeater same smart antenna same isolat\$3) and 455/15.ccls.	US-PGPUB; USPAT; EPO	OR	OFF	2004/07/30 18:48
S11	133378	(frequency adj translating adj repeater ) same smart antenna	US-PGPUB; USPAT; EPO	OR	OFF	2004/07/30 19:00
S12	82712	(frequency adj translating adj repeater ) same smart antenna and @pd<"20020212"	US-PGPUB; USPAT; EPO	OR	OFF	2004/07/30 19:00
S13	504	455/562 and ((frequency adj translating adj repeater ) same smart antenna and @pd<"20020212")	US-PGPUB; USPAT; EPO	OR	OFF	2004/07/30 19:50
S14	1	((repeater same smart antenna same isolat\$3) and 455/15.ccls.) and (455/562 and ((frequency adj translating adj repeater ) same smart antenna and @pd<"20020212"))	US-PGPUB; USPAT; EPO	OR	OFF	2004/07/30 19:01
S15	23	455/562 and ((frequency adj translating adj repeater ) same smart antenna and @pd<"20020212") and (spectral adj efficiency)	US-PGPUB; USPAT; EPO	OR	OFF	2004/07/30 21:15
S16	3	455/562 and ((frequency adj translating adj repeater ) same smart antenna and @pd<"20020212") and (spectral adj efficiency) and repeater	US-PGPUB; USPAT; EPO	OR	OFF	2004/07/30 21:53
S17	13	"4727490"	US-PGPUB; USPAT; EPO	OR	OFF	2004/07/30 21:21
S18	1349	455/11.1	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/30 21:48



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S19	1361	455/13.1	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/30 21:48
S20	240	455/11.1 and 455/13.1	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/30 21:48
S21	606	455/67.13	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/30 21:49
S22	772	455/562.1	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/30 21:49
S23	9	455/67.13 and 455/562.1	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/30 21:49
S24	2442	455/550	USPAT	OR	OFF	2004/07/30 21:50
S25	61	455/559	USPAT	OR	OFF	2004/07/30 21:50
S26	99	370/243.ccls.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/30 21:51
S27	18	370/274.ccls.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/07/30 21:51
S28	607	370/315	USPAT	OR	OFF	2004/07/30 21:52
S29	1	370/243.ccls. and 370/315	USPAT	OR	OFF	2004/07/30 21:52
S30	32	455/550 and 455/559	USPAT	OR	OFF	2004/07/30 21:55
S31	19	455/550 and 455/559 and (smart antenna)	USPAT	OR	OFF	2004/07/30 21:56
S32	177	(base adj station) with (smart adj antenna)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/07/31 09:23
S33	4	(base adj station) with (smart adj antenna) same (repeater or relay)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/07/31 09:43
S34	10019	(mobile or terminal or mobile phone) same (repeater or relay) same (base station with (smart antenna))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/10/12 20:37
S35	36	455/446.ccls. and ((mobile or terminal or mobile phone) same (repeater or relay) same (base station with (smart antenna)))	US-PGPUB; USPAT; EPO	OR	OFF	2004/07/31 12:45



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S36	1	(455/446.ccls. and ((mobile or terminal or mobile phone) same (repeater or relay) same (base station with (smart antenna)))) and (adaptive adj antenna adj array)	US-PGPUB; USPAT; EPO	OR	OFF	2004/07/31 12:43
S37	10010	(mobile or terminal or mobile phone) same (repeater or relay) same (base station with (adaptive adj antenna adj array))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/07/31 12:44
S38	36	455/446.ccls. and ((mobile or terminal or mobile phone) same (repeater or relay) same (base station with (adaptive adj antenna adj array)))	US-PGPUB; USPAT; EPO	OR	OFF	2004/07/31 12:45
S71	388	(base adj2 station or BTS or BS) near2 (communicat\$3 or transmit\$3) and ((backhaul or RF) with between with (repeater or BS or BTS) with (base adj2 station or BS or BTS))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/28 09:03
S72	13717	((base adj2 station or BS or BTS) with smart antenna) same isolat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/28 12:52
S73	13703	((repeater with smart antenna) same isolat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/28 09:05
S74	13699	S72 and S73	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/28 09:05
S75	13699	S72 same S73	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/28 09:05
S76	41	S71 and S74	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/28 09:06



## EAST Search History

S77	46	((base adj2 station or BS or BTS) with ((smart adj2 antenna or adpative adj2 antenna) with (control\$3)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/28 17:05
S78	2139	(base adj2 station or BS or BTS) near2 (repeater or realy)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/28 17:07
S79	46	((base adj2 station or BS or BTS) with ((smart adj2 antenna or adpative adj2 antenna) with (control\$3)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/28 17:15
S80	1	S78 and S79	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/28 17:07
S83	2133	(base adj2 station or BS or BTS) near2 repeater	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/28 18:02
S84	13699	(base adj station with smart antenna) same isolat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/28 17:16
S85	111	S84 and S83	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/28 17:16
S86	22	S84 same S83	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/28 17:55



## EAST Search History

S87	525	455/562.1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/28 17:55
S88	2349	455/561	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/28 17:55
S89	218	S87 and S88	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/28 17:56
S90	32	S89 and (repeater or relay)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/29 14:14
S91	10	S90 and (beam near3 (form\$3 steer\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/28 18:01
S92	8	S91 and spatial\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/28 17:58
S93	1	S92 and isolation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/28 17:57
S94	3	S79 and S89	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/28 18:02
S95	4	("5508707"   "6240098"   "6470195"   "6701165").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/28 18:05



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S96	2	"20030216156"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/29 14:15
S97	2	"5970410".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/29 14:15
S98	7	(base adj2 station or BS or BTS) with (adaptive-array adj antenna or smart or intelligent adj antenna) with (isolation or separation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/09 16:17
S99	2133	(base adj2 station or BS or BTS) near2 (repeaters)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/29 19:11
S10 0	77	(base adj2 station or BS or BTS) near2 (repeaters) near2 (smart antenna)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/29 19:12
S10 1	1188	((base adj2 station or BS or BTS) with (array adj antenna or adaptive adj array adj antenna))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/30 08:14
S10 2	2778	(select\$3 or acquir\$3) near2 (element with (direct\$3 or steer\$3 or point\$3 or beam\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/30 08:15
S10 4	58	((major adj lobe and phase or amplitude) near2 (communicat\$3 or transmit\$3 or connect\$3)) with (repeater)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/30 08:18



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S10 6	5	S101 and S102	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/30 08:34
S10 7	1	((base adj station or BS or BTS) and ((array adj antenna or smart adj antenna) with (select\$3 or choos\$3) near2 (element near main or major lobe))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/12 20:43
S10 8	3	((base adj station or BS or BTS) and (array adj antenna or smart adj antenna)) near2 (repeater)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/09 16:19
S10 9	31	(smart adj antenna or adaptive adj array adj antenna) with ((select\$3 or chos\$3) near2 (element or beam))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/09 16:19
S11 0	8	S109 and ((phase or amplitude) with (null))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/30 09:11
S11 1	11	((base adj station) or BS) with ((smart adj antenna) or (adaptive adj array adj antenna)) with ((select\$3 or chos\$3) near2 (element or beam))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/12 20:32
S11 2	13806050	(repeaters) between ((BS or (base adj styation)) and (MS or (mobile adj station)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/12 20:34
S11 3	10	S111 and S112	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/12 20:34



## EAST Search History

S11 4	24905	(mobile or terminal or mobile phone) same (repeater or relay) same (base station with (smart antenna))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/09 16:20
S11 5	1384	(mobile or terminal or mobile phone) same (repeater or relay) same (base station with (smart antenna)) same (isolat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/12 20:38
S11 6	308	(mobile or terminal or mobile phone) same (repeater or relay) same (base station with (smart antenna)) with (isolat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/12 20:38
S11 7	16	(mobile or terminal or mobile phone) same (repeater or relay) same (base station with (smart antenna)) with (isolat\$3) with (select\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/09 16:21
S11 8	2	(mobile or terminal or mobile phone) same (repeater) same (base station with (smart antenna)) with (isolat\$3) with (select\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/12 20:39
S12 0	16	((base adj station) or BS or BTS) with ((array adj antenna) or (smart adj antenna)) same (repeater)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/09 16:16